Paper Pattern

Duration: 3 hours **Total Theory Marks:** 70		**Section-wise Marking and Question Typology**			
Section	**Question Type**	**Number of Ques.**	**Marks Each**	**Total**	**Choices**
A	MCQ	10	1	10	None
A	Very Short Answer (VSA)	8	1	8	None
B	Short Answer I (SA-I)	12	2	16	Attempt 8 out of 12
C	Short Answer II (SA-II)	12	3	24	Attempt 8 out of 12
D	Long Answer (LA)	5	4	12	Attempt 3 out of 5
Total				70	

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Unit	**Chapter**	**Without Option**	**With Option**
Reproduction	Reproduction in Lower & Higher Plants	6	8
	Reproduction in Lower & Higher Animals	6	8
Genetics and Evolution	Inheritance and Variation	4	6
	Molecular Basis of Inheritance	4	6
	Origin and Evolution of Life	4	6
Physiology	Plant Water Relation	5	7
	Plant Growth and Mineral Nutrition	5	7
	Respiration and Circulation	7	10
	Control and Co-ordination	8	11
Applied Biology	Human Health and Diseases	3	4
	Enhancement and Food Production	4	6
	Biotechnology	5	7
Ecology and Environment	Organisms and Populations	3	4
	Ecosystems and Energy Flow	3	4

Study Material

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Unit	**Chapter**	**Without Option**	**With Option**
	Biodiversity, Conservation, Environmental	3	4
Total		70	98

Study Material

Paper Pattern

Duration: 3 hours **Total Theory Marks:** 70		**Section-wise Marking and Question Typology**			
Section	**Type**	**Number of Ques.**	**Marks Each**	**Total Marks**	**Optional Choices**
A	MCQ (Section A)	10	1	10	No
A	Very Short Answer	8	1	8	No
B	Short Answer I	12	2	16	Choose 8 out of 12
C	Short Answer II	12	3	24	Choose 8 out of 12
D	Long Answer	5	4	12	Choose 3 out of 5
Total				70	—

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Unit	**Chapter**	**Without Option**	**With Option**
Physical Chemistry	Solid State	3	5
	Solutions	4	6
	Ionic Equilibrium	4	6
	Chemical Thermodynamics	6	8
	Electrochemistry	5	7
	Chemical Kinetics	4	6
Inorganic Chemistry	Elements of Groups 16, 17, & 18	6	8
	Transition/Inner Transition Elements	6	8
	Coordination Compounds	5	7
Organic Chemistry	Halogen Derivatives	5	7
	Alcohols, Phenols, and Ethers	4	6
	Aldehydes, Ketones, and Carboxylic Acids	6	8

Study Material

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Unit	**Chapter**	**Without Option**	**With Option**
	Amines	3	4
Applied Chemistry	Biomolecules	3	4
	Intro to Polymer Chemistry	3	4
	Green Chemistry & Nano Chemistry	3	4
Total		70	98

Study Material

Paper Pattern

Duration: 3 hours **Total Theory Marks:** 70		**Section-wise Marking and Question Typology**			
Section	**Question Type**	**No. of Qs**	**Marks each**	**Total**	**Choices**
A	MCQs	8	2	16	None
A	Very Short Answer	4	1	4	None
B	Very Short Answer	12	2	16	Attempt 8 out of 12
C	Short Answer	12	3	24	Attempt 8 out of 12
D	Long Answer	8	4	20	Attempt 5 out of 8
Total				70	

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Sr.No.	**Chapter**	**With Options**	**Without Options**
1	Differentiation	9	7
2	Application of Derivatives	9	7
3	Mathematical Logic	8	6
4	Differential Equations	8	6
5	Matrices	6	4
6	Pair of Straight Lines	6	4
7	Definite Integration	6	4
8	Probability Distributions	5	3
9	Binomial Distribution	5	3
10	Linear and Programming	4	2
11	Application of Definite Integration	4	2
12	Vectors	12	9
13	Trigonometric Functions	10	8
14	Line and Plane	10	7
15	Indefinite Integration	10	8

Study Material

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Sr.No.	**Chapter**	**With Options**	**Without Options**
Total		112	80

Study Material

Paper Pattern

Duration: 3 hours **Total Theory Marks:** 70		**Section-wise Marking and Question Typology**			
Section	**Question Type**	**Number of Ques.**	**Marks Each**	**Total**	**Choices**
A	MCQ	10	1	10	None
A	Very Short Answer (VSA)	8	1	8	None
B	Short Answer I (SA-I)	12	2	16	Attempt 8 out of 12
C	Short Answer II (SA-II)	12	3	24	Attempt 8 out of 12
D	Long Answer (LA)	5	4	12	Attempt 3 out of 5
Total				70	

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Sr.No.	**Chapter Name**	**Without option**	**With Option**
1	Rotational Dynamics	5	7
2	Mechanical Properties of Fluids	5	7
3	Kinetic Theory of Gases and Radiation	5	7
4	Thermodynamics	5	7
5	Oscillations	4	5
6	Superposition of Waves	4	6
7	Wave Optics	5	7
8	Electrostatics	4	6
9	Current Electricity	4	6
10	Magnetic Fields from Electric Current	4	6
11	Magnetic Materials	4	5
12	Electromagnetic Induction	5	7
13	AC Circuits	4	6
14	Dual Nature of Radiation, Matter	4	5
15	Structure of Atoms, Nuclei	4	6

Study Material

Duration: 3 hours **Total Theory Marks:** 70	**Chapter-wise Distribution and Mark Allocation**		
Sr.No.	**Chapter Name**	**Without option**	**With Option**
16	Semiconductor Devices	4	5
Total		70	98

Study Material